CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/CEMENT/2019-20 Date: 10.07.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of Work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Sample ID**	:	Cement
Sample Received on	:	08.07.2019
Period of Testing	:	08.07.2019 to 10.07.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	370 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/SAND-Gradation/2019-20 10.07.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Customer**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of Work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	08.07.2019
Date of Testing	:	10.07.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	82.00	60-95	75-100	85-100	95-100
1.18	59.80	30-70	55-90	75-100	90-100
600 Micron	38.10	15-34	35-59	60-79	80-100
300 Micron	17.60	5-20	8-30	12-40	15-50
150 Micron	4.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/AGG/GR/2019-20 10.07.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of Work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	08.07.2019
Date of Testing	:	10.07.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.90	95-100	85-100
20	39.70	30-70	0-20
10	14.20	10-35	0-5
4.75	4.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/Steel/2019-20 15.07.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Samples ID**	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.25	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/Steel/2019-20 15.07.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Samples ID**	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	555	13.5	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Samples ID**	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	516	557	13.65	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 19.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of the work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Sample ID**	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.346	507.4	22.55
2	22.07.2019	19.08.2019	8.475	516.9	22.97
3	22.07.2019	19.08.2019	8.245	492.8	21.90

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 21.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2019	21.08.2019	8.163	509.3	22.64
2	24.07.2019	21.08.2019	8.249	516.7	22.96
3	24.07.2019	21.08.2019	8.375	528.6	23.49

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.07.2019	23.08.2019	8.146	485.2	21.56
2	26.07.2019	23.08.2019	8.392	509.3	22.64
3	26.07.2019	23.08.2019	8.275	492.7	21.90

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 26.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	26.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.07.2019	26.08.2019	8.247	503.9	22.40
2	29.07.2019	26.08.2019	8.363	514.2	22.85
3	29.07.2019	26.08.2019	8.415	528.7	23.50

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 27.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.07.2019	27.08.2019	8.349	521.6	23.18
2	30.07.2019	27.08.2019	8.278	517.4	23.00
3	30.07.2019	27.08.2019	8.152	500.6	22.25

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 30.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.08.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.08.2019	30.08.2019	8.249	514.2	22.85
2	02.08.2019	30.08.2019	8.375	530.6	23.58
3	02.08.2019	30.08.2019	8.178	506.3	22.50

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 05.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Raft Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.349	493.2	21.92
2	08.08.2019	05.09.2019	8.475	506.3	22.50
3	08.08.2019	05.09.2019	8.261	487.3	21.66

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 09.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.08.2019	09.09.2019	8.349	508.9	22.62
2	12.08.2019	09.09.2019	8.275	493.4	21.93
3	12.08.2019	09.09.2019	8.152	487.3	21.66

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 11.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2019	11.09.2019	8.154	503.2	22.36
2	14.08.2019	11.09.2019	8.263	518.4	23.04
3	14.08.2019	11.09.2019	8.375	526.9	23.42

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 13.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	13.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.08.2019	13.09.2019	8.247	489.3	21.75
2	16.08.2019	13.09.2019	8.369	492.8	21.90
3	16.08.2019	13.09.2019	8.415	503.9	22.40

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.463	516.9	22.97
2	19.08.2019	16.09.2019	8.297	494.8	21.99
3	19.08.2019	16.09.2019	8.312	505.4	22.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.08.2019	17.09.2019	8.249	501.6	22.29
2	20.08.2019	17.09.2019	8.375	516.5	22.96
3	20.08.2019	17.09.2019	8.415	523.9	23.28

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 19.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.08.2019	19.09.2019	8.349	515.6	22.92
2	22.08.2019	19.09.2019	8.157	492.5	21.89
3	22.08.2019	19.09.2019	8.293	504.8	22.44

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.08.2019	21.09.2019	8.249	514.2	22.85
2	24.08.2019	21.09.2019	8.367	520.6	23.14
3	24.08.2019	21.09.2019	8.174	496.8	22.08

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.264	481.7	21.41
2	26.08.2019	23.09.2019	8.374	496.7	22.08
3	26.08.2019	23.09.2019	8.415	510.5	22.69

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Job No.: CTCE/BBMP/KRIDL/W.No.07/CSR-1005m/Cube/2019-20 25.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Executive Engineer,** KRIDL, Bangalore.
*** Name of the work**	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
*** Sample ID**	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2019	25.09.2019	8.349	525.6	23.36
2	28.08.2019	25.09.2019	8.275	514.2	22.85
3	28.08.2019	25.09.2019	8.148	504.9	22.44

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Executive Engineer,** KRIDL, Bangalore.
* Name of the work	:	Construction of drains from Chikkasidappa Layout to SWD in Amruthahalli in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/45/2019-20 Dated : 08.07.2019
* Sample ID	:	RCC Storm Water Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2019

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2019	27.09.2019	8.148	511.4	22.73
2	30.08.2019	27.09.2019	8.263	525.8	23.37
3	30.08.2019	27.09.2019	8.375	536.9	23.86

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